



KOREAN PATENT ABSTRACTS

(11)Publication number: 1020020075720 A
(43)Date of publication of application: 05.10.2002

(21)Application number: 1020020014259
(22)Date of filing: 16.03.2002

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(51)Int. Cl. B82B 3 /00

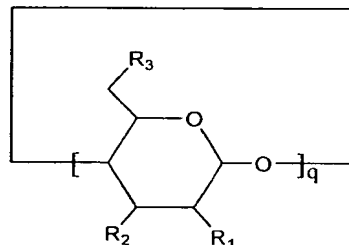
(54) COMPOSITION FOR PRODUCING MATERIAL HAVING NANO-SIZED PORES

(57) Abstract:

PURPOSE: A composition for producing a material having nano-sized pores is provided, thereby providing a layer-insulation membrane with a pore size of 50 angstrom or less for a semiconductor. CONSTITUTION:

The composition for producing a material having nano-sized pores comprises 0.1 to 95 wt.% of cyclodextrin derivative, a thermostable organic or inorganic matrix precursor; and 20 to 99.9 wt.% of a solvent dissolving the above substances, wherein the cyclodextrin derivative is represented by formula(6), in which R₁, R₂ and R₃ are independently halogen, C0-C10 amino or azido, C3-C20 imidazole or pyridin, C1-C10 cyano, C2-C10 carbonate, C1-C10 carbamate or -OR₄; R₄ is hydrogen, C2-C3 acyl, C1-C2 alkyl, C3-C10 alkene, C3-C20 alkyne,

C7-C20 tosyl, C1-C10 mesyl, C0-C10 phosphorus, C3-C10 cycloalkyl, C1-C20 carboxy alkyl, glucosyl, maltosyl or Sir₁r₂r₃; r₁, r₂ and r₃ are independently C1-C5 alkyl, C1-C5 alkoxy or C6-C20 aryl; and q is an integer of 6 to 12.



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Legal Status

Date of request for an examination (20020828)

Notification date of refusal decision (00000000)

Final disposal of an application (registration)

Date of final disposal of an application (20040924)

Patent registration number (1004553390000)

Date of registration (20041022)

Number of opposition against the grant of a patent ()

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ()

Date of requesting trial against decision to refuse ()